

ABSTRACT

In a rotary electric machine with a stator elastic support structure, conductor segments of a stator winding, each which is formed into an approximate U-shape, are inserted into slots of a stator core in such a manner that leg parts of each conductor segment penetrate through the slots from one end of the stator core to the other end thereof and are connected at top ends. Further, the conductor segments are arranged to have a predetermined clearance between adjacent two thereof at both coil ends of the stator winding, and a cooling fan is disposed so that air is blown toward the clearances of the conductor segments. Accordingly, when the stator core is supported in a frame through an elastic member, a magnetic noise can be reduced while it can effectively prevent heat deterioration of the elastic member due to heat radiated from the stator core and the stator winding, in low cost.